



Exhibit S

MDE Tidal Submission Package



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March 11, 2021

Mr. Matt Wallach
Maryland Department of the Environment
Water Management Administration
Regulatory Services Coordination Office
1800 Washington Boulevard, Suite 430
Baltimore, Maryland 21230-1708

RE: Tidal Wetlands Application: 20-WL-1574
Tracking: 202061983
AI: 170244

Dear Mr. Wallach:

In response to your February 8, 2021 letter, BWRR is providing the additional information that was requested in order to complete our application and put the project on public notice. This submittal includes portions of the overall Project application relevant to Tidal Wetlands Division.

Attached please find the Comment Response document and the following excerpts relevant to Tidal Wetland Authorization exhibits (extracted from the Complete JPA Exhibits):

- TW-Exhibit A (**Updated** Impact plates and tables)
- TW-Exhibit L (Plan and Profile drawings)

If you have any questions or comments on this application or require any additional information, please contact Kris Frederes, BWRR Project Manager, at 443-759-8360 or via email at KFrederes@bwrappidrail.com. We thank you for your prompt attention to this request.

Kind regards,

Furqan Siddiqi
Executive Vice President

Encl.

cc: Branden Bracher, FRA
Pam McNicholas, WSP
Larry Pesesky, WSP
Joseph.DaVia
Matthew Hynson

Matthew Wallach
Joshua Tiralla
Tammy Roberson
William Seiger
Phatta Thapa

Angel Valdez
Gwendolyn Gibson
Heather Nelson -MDE
Dixie Henry -MDP
Amanda Sigillito

SCMAGLEV- Draft MDE Tidal Comment Responses (As of 3/2/2021)

#	Agency	Comment	Official Comment Response	WSP Comment Status
MDE Tidal Wetlands Division Comment				
1	MDE TWD	Since the Tidal Wetlands License will be a separate license and include only the tidal crossings, please provide a plan set that will be used solely for the Tidal Wetlands Authorization. After a cursory review of the Exhibits, the Sheets that may be included, but are not limited to, are: Exhibit A: 2, 3, 5, 44, 47, 48, 49, 50, 51, 52, 60; and Exhibit L: 8, 9, 38, 41, 51, 53, 81, 82, 94	A separate plan set to be used for the Tidal Wetland Authorization is submitted with this response to comments. This plan set includes the relevant sheets from Exhibits A and L.	
2	MDE TWD	Cross Sections (Exhibit A, p.51, 51, 60): Please change measurements from meters to feet.	Feet measurements have been added in parentheses next to the metric dimensions. The metric measurements have been maintained to facilitate correlation with other project documents that are also using the metric system.	
3	MDE TWD	Exhibit A, p. 51 and Exhibit L, p. 9: These cross sections do not clearly show both tidal crossings through the Anacostia and Quincy Run. Please revise this cross section so this is clear.	The cross-section (tunnel profile) under Anacostia has been revised and extended to include Quincy Run.	
4	MDE TWD	Exhibit L, p. 41. The LOD extends over State Tidal Wetlands. If there are no tidal impacts in this area, please revise the LOD so it does not extend over State Tidal Wetlands.	The DEIS plans will be revised at FEIS to clarify the LOD doesn't overlap with the State Tidal Wetland in this area. The LOD shown on the wetland impact plates is correct.	
5	MDE TWD	Geotechnical Borings. There are currently no proposed borings in State Tidal Wetlands. If there is a potential need for any soil samples, please include these on the plan set.	Additional borings will be required at later stages of the project development. If geotechnical borings will be required in the State Tidal wetlands, this information will be submitted in a revised JPA at a later date.	



**Exhibit A – Impact Plates for
Tidal Authorization**

NOTES:

1. IMPACT PLATES ARE PROVIDED ONLY IN LOCATIONS WHERE IMPACTS ARE PRESENT.
2. THE WETLAND AND WATERS DELINEATION TOOK PLACE IN 2018, WITH ADDITIONAL AREAS DELINEATED IN 2020.
3. SOURCE OF MARYLAND AERIAL MAPPING: MARYLAND'S MAPPING & GIS DATA PORTAL MD 1MAP 2017.
4. WETLANDS EXTENDING OUTSIDE THE STUDY AREA ARE DELINEATED BASED ON VISUAL ASSESSMENT AND READILY AVAILABLE PUBLISHED DATA.
5. STATE TIDAL WETLANDS ARE ALL WETLANDS LOCATED CHANNELWARD OF MEAN HIGH WATER (MHW). PRIVATE TIDAL WETLANDS ARE VEGETATED AREAS LOCATED LANDWARD OF MHW BUT STILL SUBJECT TO REGULAR OR PERIODIC TIDAL INFLUENCE, AND ARE LOCATED WITHIN THE HIGHEST ASTRONOMICAL TIDE (HAT) BOUNDARY. NO PRIVATE TIDAL WETLANDS ARE PRESENT ON THE IMPACT PLATES.
6. REFER TO WETLAND LOCATION MAPS FOR THE TYPE OF RESOURCE DELINEATION PERFORMED ON THIS PROJECT (FULL FIELD DELINEATION, PARTIAL FIELD DELINEATION OR DESKTOP EXTENSION).
7. WETLAND ABBREVIATIONS USED ON THESE PLATES:
 PFO = PALUSTRINE FORESTED
 PEM = PALUSTRINE EMERGENT
 PUB = PALUSTRINE UNCONSOLIDATED BOTTOM

DRAFT
3/10/2021

INDEX OF SHEETS

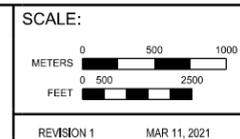
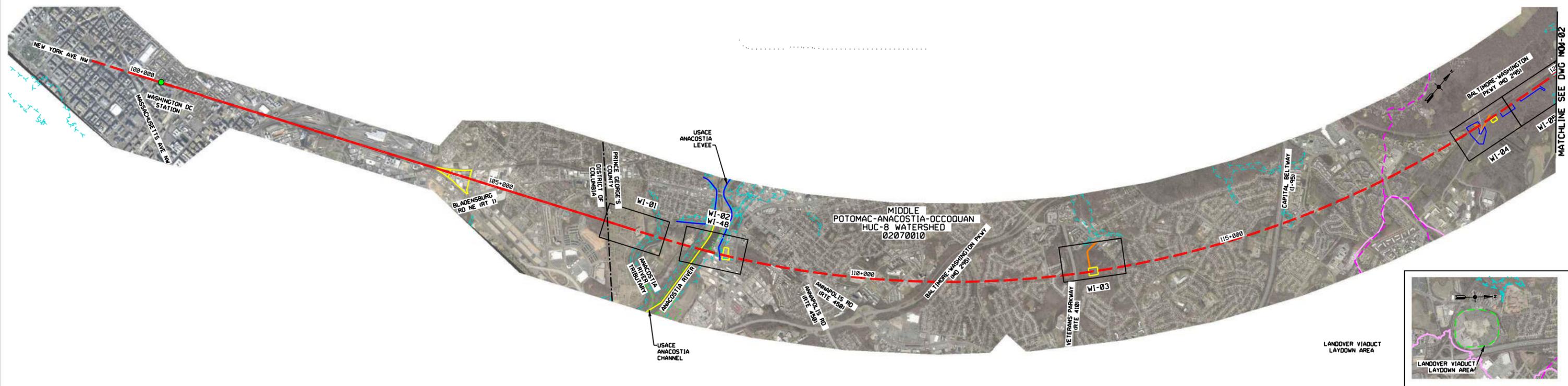
KM-01	-	KM-02	IMPACT PLATES KEY MAP AND LEGEND
WI-01	-	WI-47	IMPACT PLATES
WI-48	-	WI-49	ANACOSTIA AND PATAPSCO RIVER CROSSINGS
DET-01			TEMPORARY ACCESS DETAILS

KEY MAP LEGEND

	EDGE OF ELEVATED STRUCTURE
	EDGE OF DEEP TUNNEL
	PRELIMINARY FACILITY LOD
	COUNTY BOUNDARY
	STORMWATER MANAGEMENT FACILITY
	FEDERAL HUC 8-DIGIT WATERSHED
	TIER II WATERSHED
	MEAN HIGH WATER (MHW)
	STATION LOCATION
	100-YR FEMA FLOODPLAIN

SOURCE FOR MEAN HIGH WATER AND HIGHEST ASTRONOMICAL TIDE BOUNDARY :

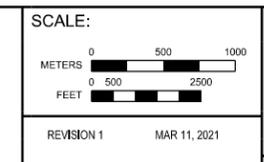
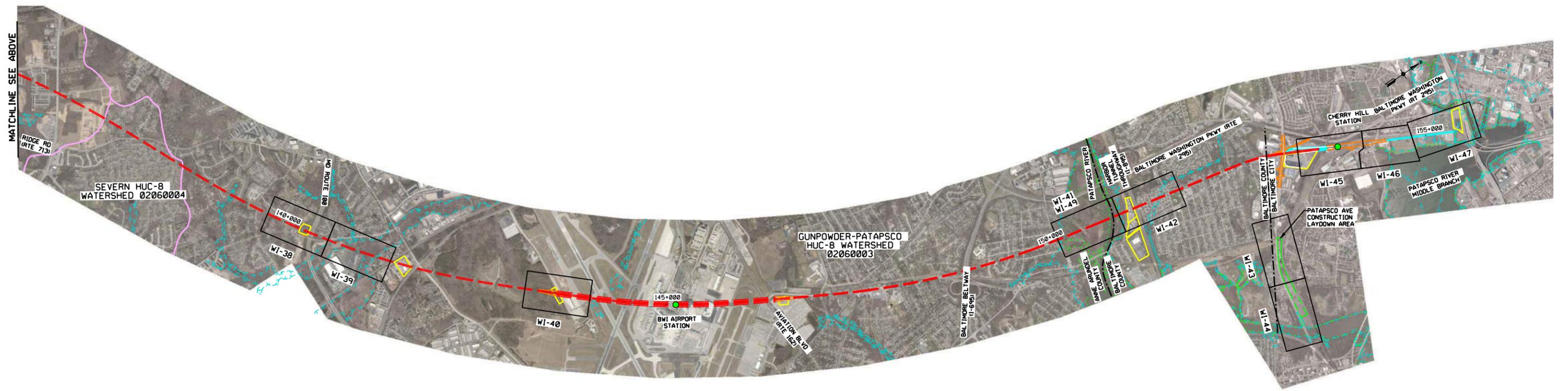
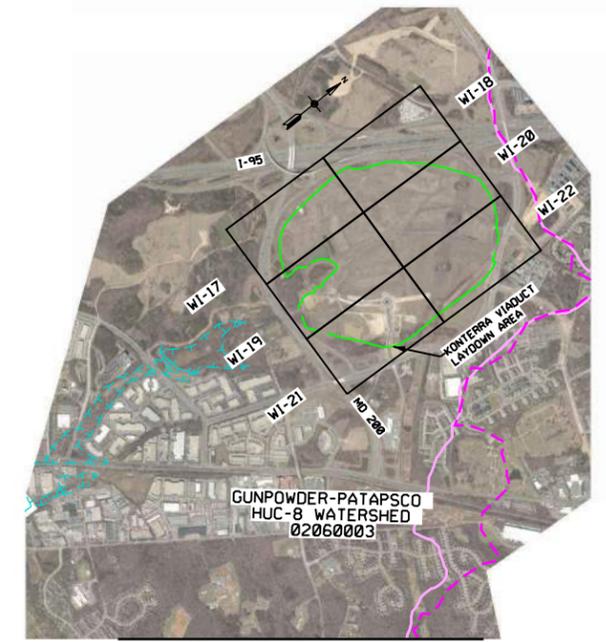
- <https://www.ngs.noaa.gov>



**BALTIMORE-WASHINGTON SCMAGLEV
 WETLAND AND WATERWAY
 IMPACT PLATES**



IMPACT PLATES KEY MAP AND LEGEND KM-01

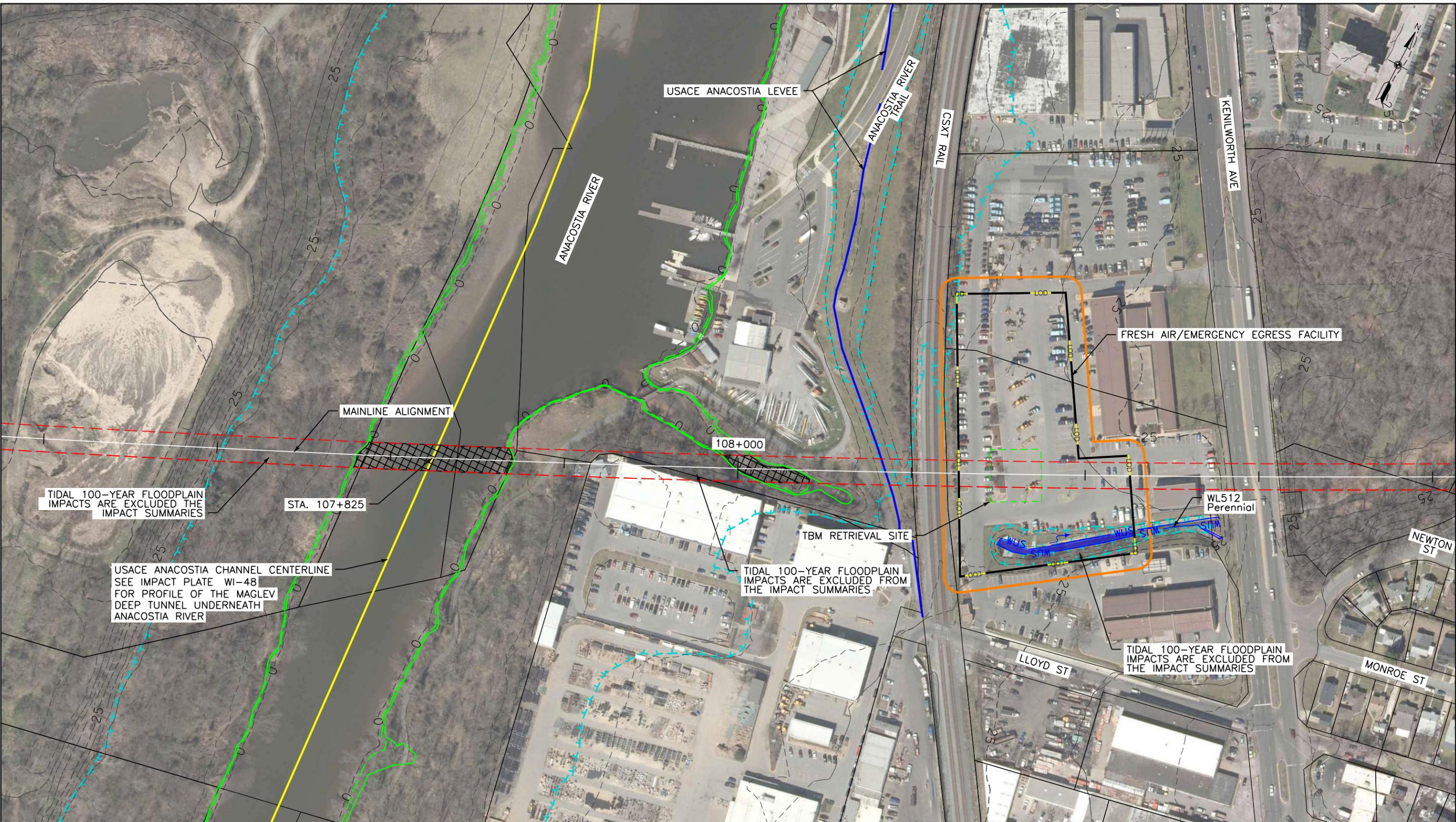


**BALTIMORE-WASHINGTON SCMAGLEV
WETLAND AND WATERWAY
IMPACT PLATES**

IMPACT PLATES KEY MAP KM-02



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LEGEND		LEGEND		LEGEND	
	WATER OF THE US		FEDERAL HUC 8-DIGIT WATERSHED		PERMANENT WETLAND IMPACT
	WETLAND		TIER II WATERSHED		TEMPORARY WETLAND IMPACT
	25' WETLAND BUFFER		HIGH ASTRONOMICAL TIDE (HAT)		PERMANENT NTWSSC IMPACT
	100' NTWSSC BUFFER		MEAN HIGH WATER (MHW)		PERMANENT WETLAND BUFFER IMPACT
	STUDY AREA		DIRECTION OF FLOW		PERMANENT WATERWAY IMPACT
			100-YR FEMA FLOODPLAIN		PROPERTY LINE
					PERMANENT WETLAND HABITAT CONVERSION
					TUNNEL CROSSING UNDER TIDAL WATERS
					LOD - LIMIT OF DISTURBANCE
			PRELIMINARY ROW TUNNEL PORTAL		5' CONTOURS
			PRELIMINARY CUT-AND-COVER TUNNEL		PIER FOOTING
			PROPOSED OVERHEAD ELECTRIC LINE		

SCALE:

METERS 0 20 40

FEET 0 20 100

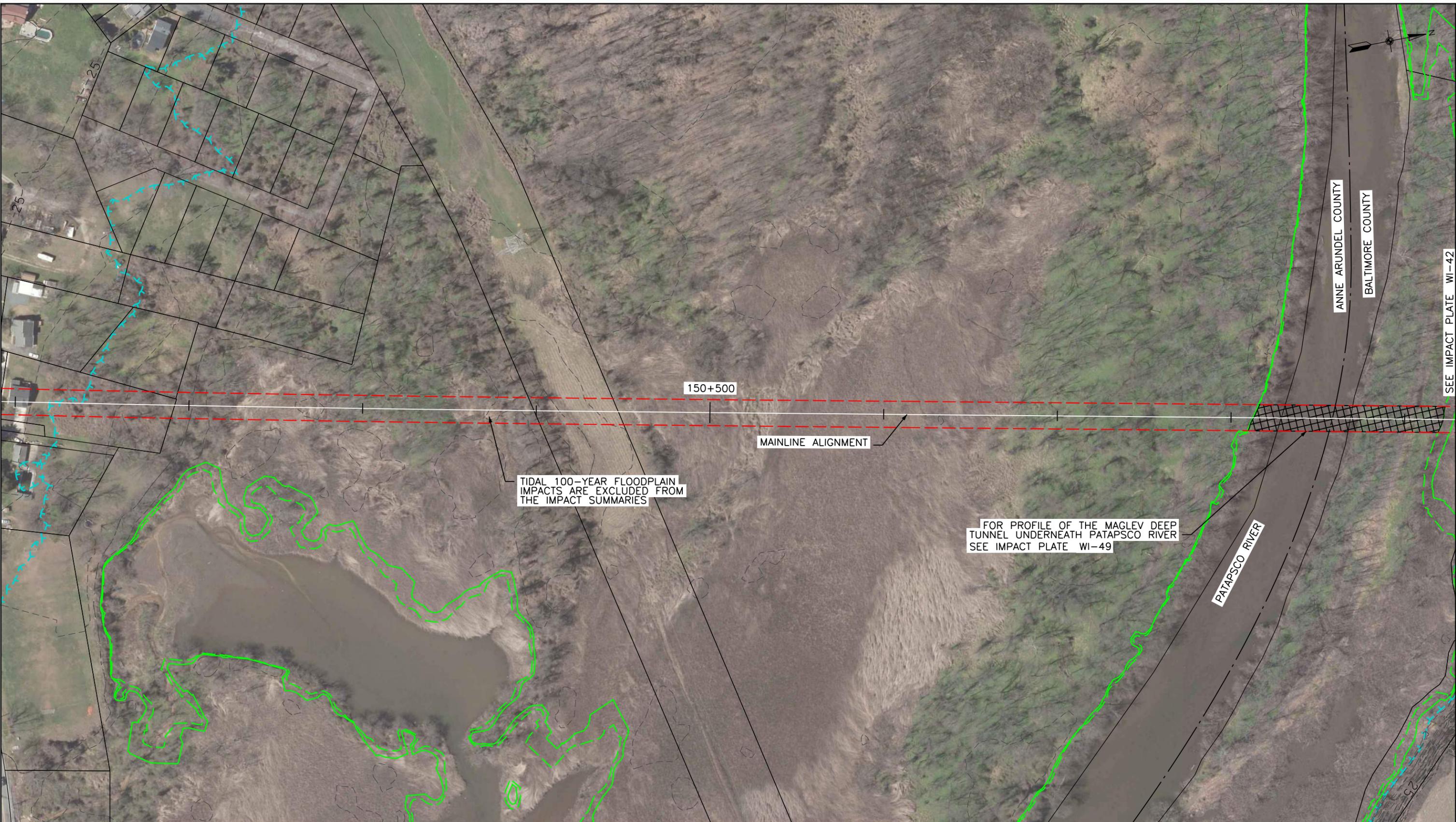
REVISION 1 MAR 11, 2021

**BALTIMORE-WASHINGTON SCMAGLEV
WETLAND AND WATERWAY
IMPACT PLATES**

IMPACT PLATE WI-02



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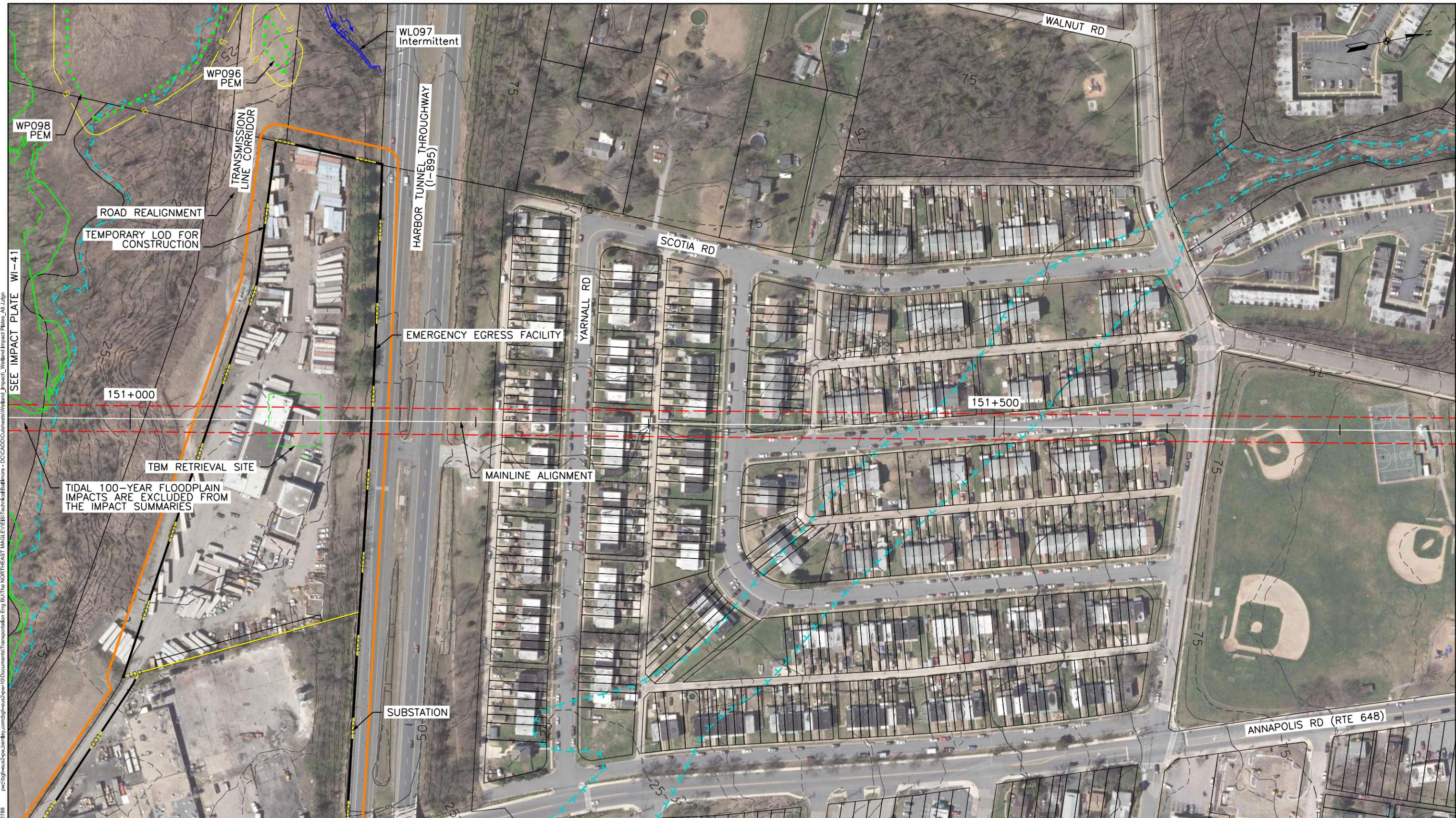
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**BALTIMORE-WASHINGTON SCMAGLEV
WETLAND AND WATERWAY
IMPACT PLATES**

IMPACT PLATE WI-41





SEE IMPACT PLATE WI-41

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LEGEND	
	WATER OF THE US
	WETLAND
	25' WETLAND BUFFER
	100' NTWSSC BUFFER
	STUDY AREA
	FEDERAL HUC 8-DIGIT WATERSHED
	TIER II WATERSHED
	HIGH ASTRONOMICAL TIDE (HAT)
	MEAN HIGH WATER (MHW)
	DIRECTION OF FLOW
	100-YR FEMA FLOODPLAIN
	PERMANENT WETLAND IMPACT
	PERMANENT NTWSSC IMPACT
	PERMANENT WETLAND BUFFER IMPACT
	PERMANENT WATERWAY IMPACT
	PERMANENT WETLAND HABITAT CONVERSION
	TUNNEL CROSSING UNDER TIDAL WATERS
	TEMPORARY WETLAND IMPACT
	TEMPORARY NTWSSC IMPACT
	TEMPORARY WETLAND BUFFER IMPACT
	TEMPORARY WATERWAY IMPACT
	PROPERTY LINE
	LOD - LIMIT OF DISTURBANCE
	PRELIMINARY ROW TUNNEL PORTAL
	PRELIMINARY CUT-AND-COVER TUNNEL
	5' CONTOURS
	PIER FOOTING
	PROPOSED OVERHEAD ELECTRIC LINE

SCALE:

METERS: 0 20 40

FEET: 0 20 100

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**BALTIMORE-WASHINGTON SCMAGLEV
 WETLAND AND WATERWAY
 IMPACT PLATES**

IMPACT PLATE WI-42





LEGEND	
WUS	WATER OF THE US
	WETLAND
	25' WETLAND BUFFER
	100' NTWSSC BUFFER
	STUDY AREA
	FEDERAL HUC 8-DIGIT WATERSHED
	TIER II WATERSHED
	HIGH ASTRONOMICAL TIDE (HAT)
	MEAN HIGH WATER (MHW)
	DIRECTION OF FLOW
	100-YR FEMA FLOODPLAIN
	PERMANENT WETLAND IMPACT
	PERMANENT NTWSSC IMPACT
	PERMANENT WETLAND BUFFER IMPACT
	PERMANENT WATERWAY IMPACT
	PERMANENT WETLAND HABITAT CONVERSION
	TUNNEL CROSSING UNDER TIDAL WATERS
	TEMPORARY WETLAND IMPACT
	TEMPORARY NTWSSC IMPACT
	TEMPORARY WETLAND BUFFER IMPACT
	TEMPORARY WATERWAY IMPACT
	PRELIMINARY ROW TUNNEL PORTAL
	PRELIMINARY CUT-AND-COVER TUNNEL
	5' CONTOURS
	PIER FOOTING
	PROPOSED OVERHEAD ELECTRIC LINE
	PROPERTY LINE
	LOD - LIMIT OF DISTURBANCE

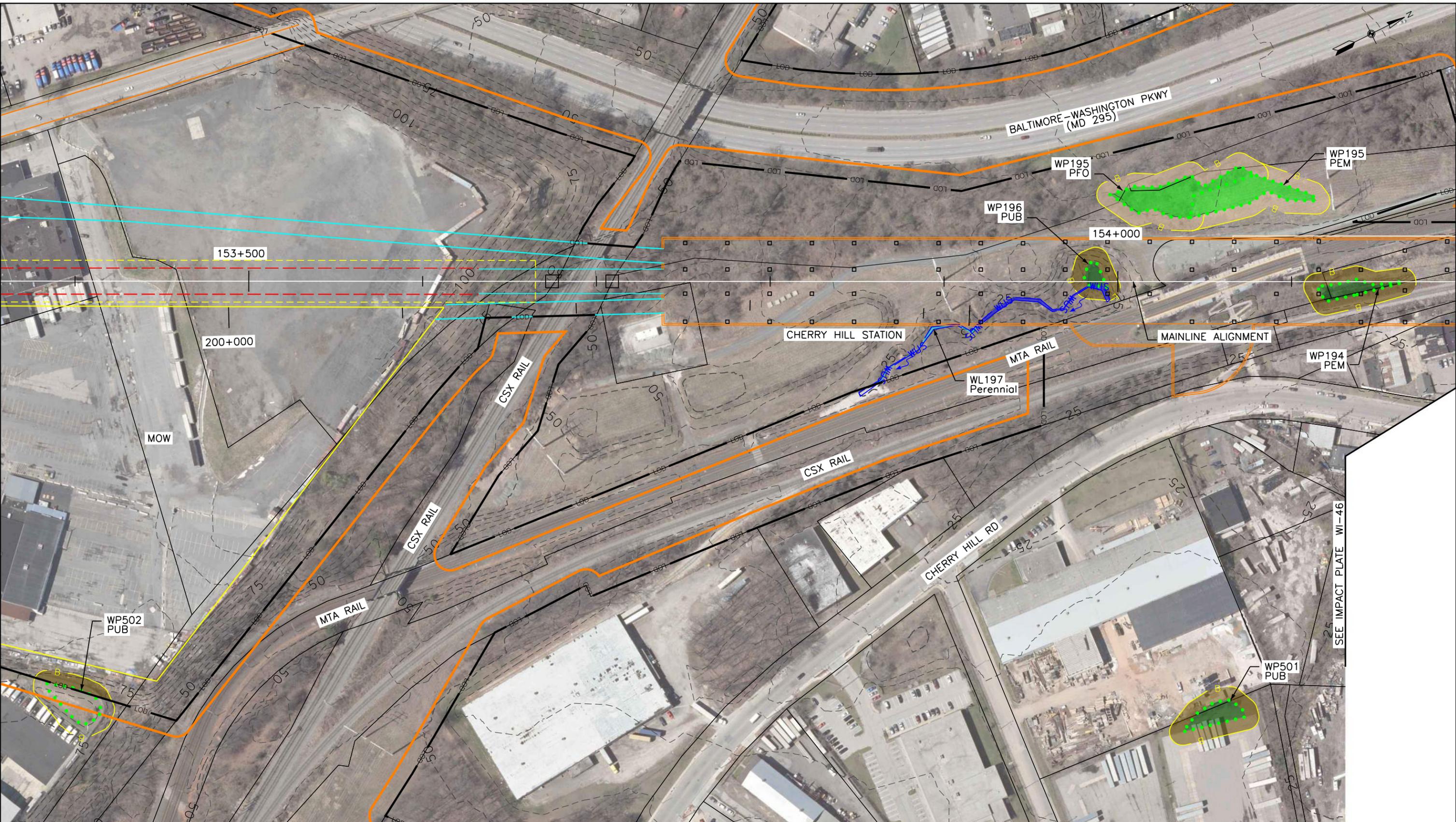
SCALE:	
	METERS 0 20 40
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**BALTIMORE-WASHINGTON SCMAGLEV
WETLAND AND WATERWAY
IMPACT PLATES**

IMPACT PLATE WI-43



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LEGEND	
WUS	WATER OF THE US
	WETLAND
	25' WETLAND BUFFER
	100' NTWSSC BUFFER
	STUDY AREA
	FEDERAL HUC 8-DIGIT WATERSHED
	TIER II WATERSHED
	HIGH ASTRONOMICAL TIDE (HAT)
	MEAN HIGH WATER (MHW)
	DIRECTION OF FLOW
	100-YR FEMA FLOODPLAIN
	PERMANENT WETLAND IMPACT
	PERMANENT NTWSSC IMPACT
	PERMANENT WETLAND BUFFER IMPACT
	PERMANENT WATERWAY IMPACT
	PERMANENT WETLAND HABITAT CONVERSION
	TUNNEL CROSSING UNDER TIDAL WATERS
	TEMPORARY WETLAND IMPACT
	TEMPORARY NTWSSC IMPACT
	TEMPORARY WETLAND BUFFER IMPACT
	TEMPORARY WATERWAY IMPACT
	PROPERTY LINE
	LOD - LIMIT OF DISTURBANCE
	PRELIMINARY ROW TUNNEL PORTAL
	PRELIMINARY CUT-AND-COVER TUNNEL
	5' CONTOURS
	PIER FOOTING
	PROPOSED OVERHEAD ELECTRIC LINE

SCALE:

METERS: 0 20 40

FEET: 0 20 100

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**BALTIMORE-WASHINGTON SCMAGLEV
WETLAND AND WATERWAY
IMPACT PLATES**

IMPACT PLATE WI-45



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LEGEND	
WUS	WATER OF THE US
	WETLAND
B	25' WETLAND BUFFER
B	100' NTWSSC BUFFER
	STUDY AREA
	FEDERAL HUC 8-DIGIT WATERSHED
	TIER II WATERSHED
	HIGH ASTRONOMICAL TIDE (HAT)
	MEAN HIGH WATER (MHW)
	DIRECTION OF FLOW
	100-YR FEMA FLOODPLAIN
	PERMANENT WETLAND IMPACT
	PERMANENT NTWSSC IMPACT
	PERMANENT WETLAND BUFFER IMPACT
	PERMANENT WATERWAY IMPACT
	PERMANENT WETLAND HABITAT CONVERSION
	TUNNEL CROSSING UNDER TIDAL WATERS
	TEMPORARY WETLAND IMPACT
	TEMPORARY NTWSSC IMPACT
	TEMPORARY WETLAND BUFFER IMPACT
	TEMPORARY WATERWAY IMPACT
	5' CONTOURS
	PROPERTY LINE
	LOD - LIMIT OF DISTURBANCE
	PRELIMINARY ROW TUNNEL PORTAL
	PRELIMINARY CUT-AND-COVER TUNNEL
	PIER FOOTING
	PROPOSED OVERHEAD ELECTRIC LINE

SCALE:

METERS: 0 20 40

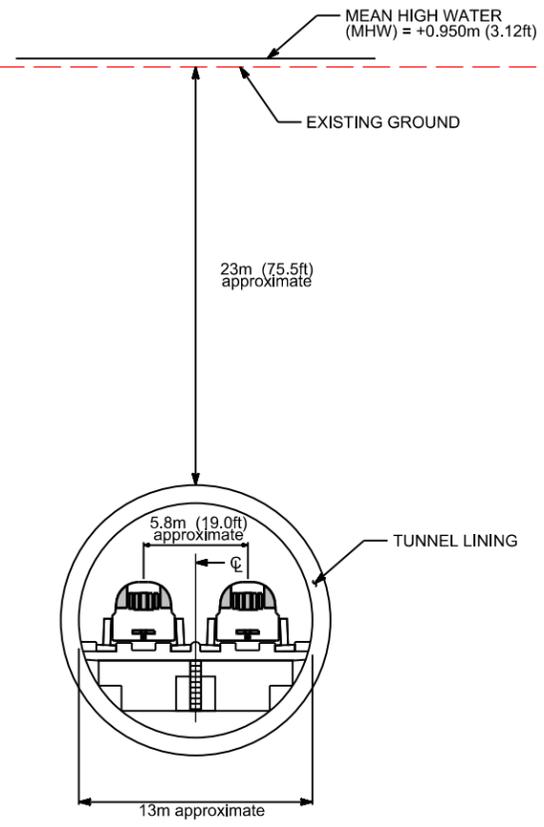
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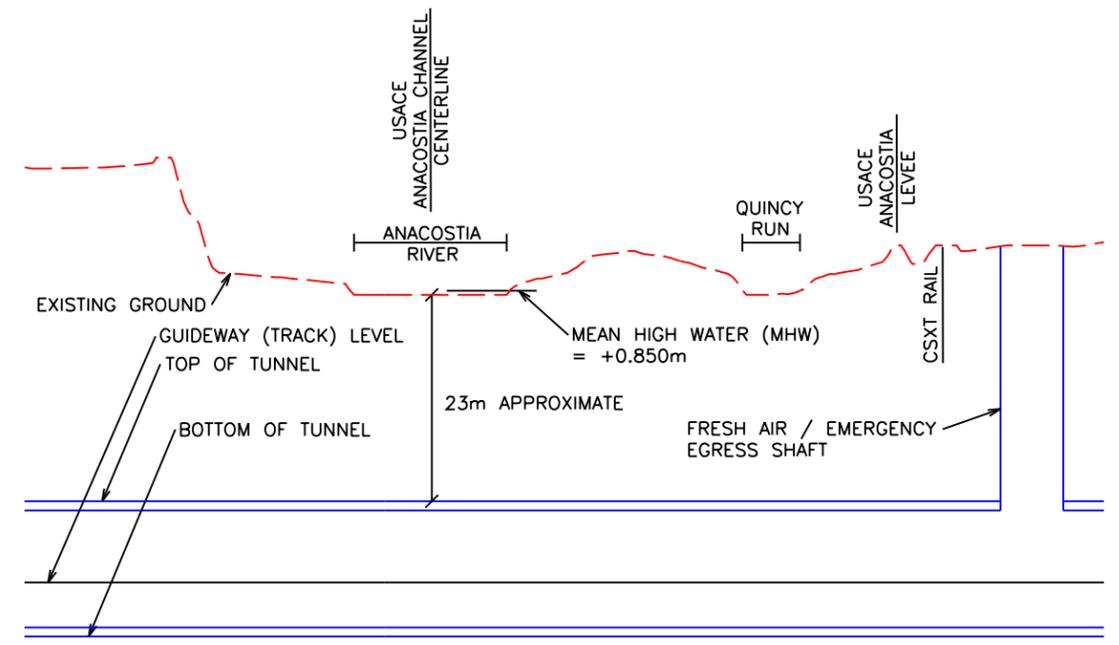
BALTIMORE-WASHINGTON SCMAGLEV
WETLAND AND WATERWAY
IMPACT PLATES

IMPACT PLATE WI-47

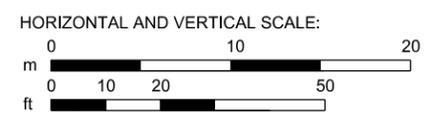




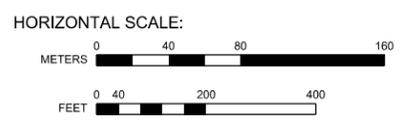
TUNNEL CROSS-SECTION STA. 107+830



TUNNEL PROFILE STA. 107+830



NOTE:
MEAN LOW WATER (MLW) = 0.0M



NOTE:
MEAN LOW WATER (MLW) = 0.0M

NOTE:
TUNNEL WILL BE CONSTRUCTED WITH A TUNNEL BORING MACHINE PASSING UNDER THE RIVER. THEREFORE, THERE WILL BE NO SURFACE IMPACTS. SEE IMPACT PLATE WI-02 FOR PLAN VIEW.

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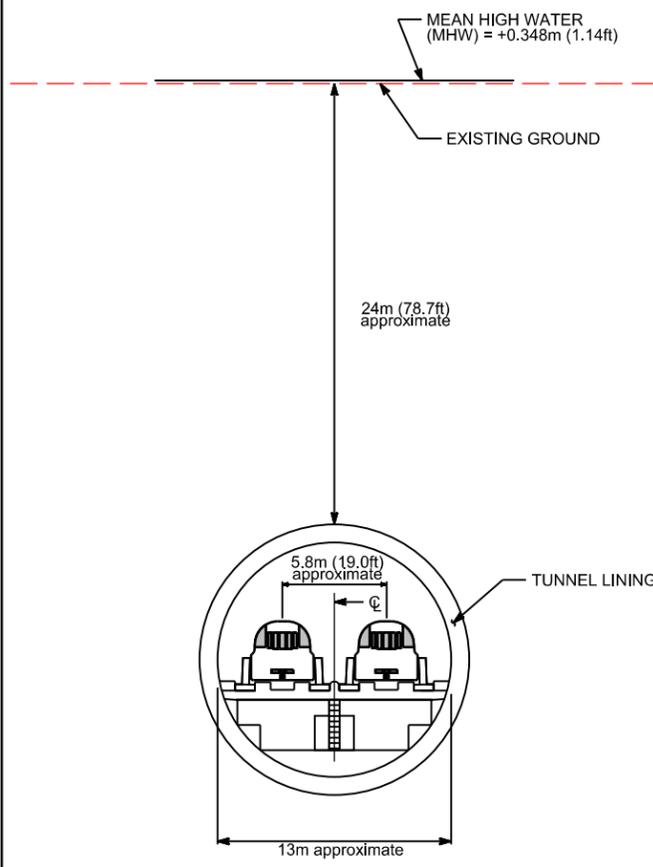
BALTIMORE-WASHINGTON SCMAGLEV
WETLAND AND WATERWAY
IMPACT PLATES

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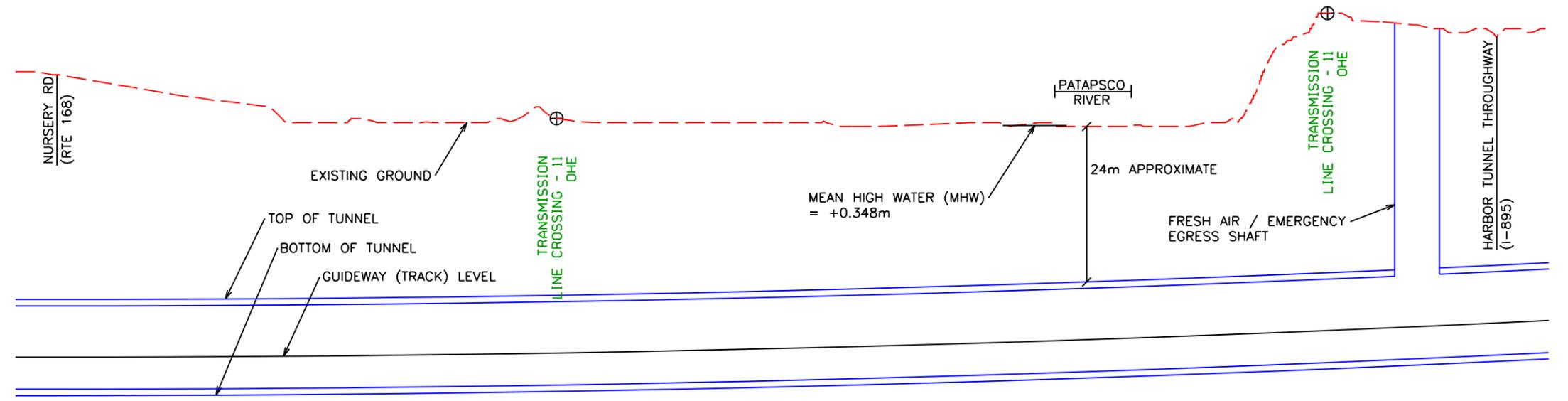
ANACOSTIA RIVER CROSSING WI-48



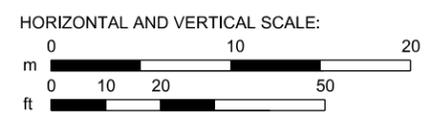
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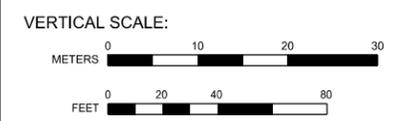
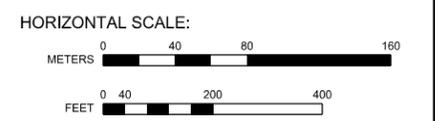
TUNNEL CROSS-SECTION STA. 150+850



TUNNEL PROFILE STA. 150+850



NOTE:
MEAN LOW WATER
(MLW) = 0.0M



NOTE:
MEAN LOW WATER
(MLW) = 0.0M

NOTE:
TUNNEL WILL BE CONSTRUCTED WITH A TUNNEL BORING MACHINE PASSING UNDER THE RIVER. THEREFORE, THERE WILL BE NO SURFACE IMPACTS. SEE IMPACT PLATE WI-41 FOR PLAN VIEW.

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BALTIMORE-WASHINGTON SCMAGLEV
WETLAND AND WATERWAY
IMPACT PLATES

PATAPSCO RIVER CROSSING WI-49



**MARYLAND DEPARTMENT OF THE
ENVIRONMENT (MDE) IMPACT
TABLES
3/10/21**

MDE Tunnel Crossing Underneath Tidal Waters

Alt J								
Tidal Water Crossing	Federal HUC-8 Watershed	Plate #	Proposed Design Type	Open Water / Unvegetated			Vegetated	
				SF	LF	Channelward Extent from Mean High Water Line (FT)	SF	LF
Anacostia River	Middle Potomac-Anacostia-Occoquan	2	Tunnel crossing underneath tidal waters	12,823	57	291	1,125	0
Quincy Run	Middle Potomac-Anacostia-Occoquan	2	Tunnel crossing underneath tidal waters	4,086.00	136	104	0	0
Patapsco River	Gunpowder-Patapsco	41	Tunnel crossing underneath tidal waters	12,744.00	50	358	4,800	0
TOTAL:				29,653	242	753	5,925	-

NOTE: State tidal wetlands, including waters, are located channelward of the mean high water line (MHWL)
Refer to the Wetland Delineation Location Mapping for Field Delineation vs. Desktop Delineation or Extension



Exhibit L

Plan & Profile Drawings for Tidal Authorization

GENERAL NOTES

- HORIZONTAL IMAGERY IS APPROXIMATE DUE TO 3D EFFECTS. A DETAILED SURVEY WILL BE CONDUCTED AS PART OF FINAL DESIGN.
- HORIZONTAL IMAGERY SOURCES ARE AS FOLLOWS:
 - OPENDATA.DC.GOV, AERIAL IMAGES DATED 2017
 - MARYLAND MAPPING AND GIS DATA PORTAL, AERIAL IMAGES DATED 2017
- THE VERTICAL PROFILE AT TRANSMISSION LINE CROSSINGS IS SUBJECT TO CHANGE UPON COORDINATION WITH UTILITY AGENCIES.
- THE EXISTING GROUND SHOWN ON THE VERTICAL PROFILES IS APPROXIMATE. ESPECIALLY AT WATER CROSSING LOCATIONS.
- THE VERTICAL DATUM OF THE PROPOSED ELEVATIONS SHOWN ON THE VERTICAL PROFILES IS NAVD88.
- PROPOSED ELEVATIONS SHOWN ON THE VERTICAL PROFILES ARE IN METERS.
- SCMAGLEV SYSTEMS REFERS TO MISCELLANEOUS UNSTAFFED WAYSIDE FACILITIES FOR SYSTEM OPERATIONS.

LOCATION MAP AND INDEX LEGEND

- ALIGNMENT CENTERLINE - DEEP TUNNEL
- ALIGNMENT CENTERLINE - ELEVATED STRUCTURE
- COUNTY LIMIT LINE
- EDGE OF WATER
- STATION LOCATION

PLAN LEGEND

- EXISTING ROW LINE
- DEEP TUNNEL OUTSIDE DIAMETER
- ELEVATED STRUCTURE EDGE OF GUIDEWAY
- SCMAGLEV TURNOUTS AND CROSSOVERS
- PIER
- STRADDLE BENT
- PROPOSED RETAINING WALL
- LOW-CLEARANCE VIADUCT SECURITY FENCE
- GEOTECHNICAL BORING LOCATION
- UNDERGROUND PARKING ENTRANCE
- CAVERN WALL/STATION FOOTPRINT
- PRELIMINARY FACILITY FOOTPRINT
- PRELIMINARY ROW ELEVATED STRUCTURE
- PRELIMINARY ROW TUNNEL PORTAL
- PRELIMINARY LOD FOR CUT-AND-COVER TUNNEL
- PRELIMINARY LOD FOR CONSTRUCTION
- PRELIMINARY LOD FOR CONSTRUCTION AT WATER CROSSINGS
- PRELIMINARY OVERHEAD SCMAGLEV POWER SUPPLY
- PRELIMINARY UNDERGROUND SCMAGLEV POWER SUPPLY

PROFILE LEGEND

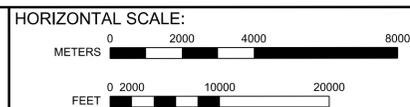
- EXISTING GROUND ALONG PROPOSED ALIGNMENT
- PROPOSED GUIDEWAY PROFILE
- VERTICAL CURVE HIGH POINT
- VERTICAL CURVE LOW POINT

INDEX OF SHEETS

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STA-401	BALTIMORE MAGLEV STATION (CAMDEN YARDS ALTERNATIVE) SITE CIVIL PLANS
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TCP-13 - TCP-41	TRAFFIC CONTROL PLANS (J & J1 ALIGNMENTS ELEVATED VIADUCTS)
TCP-42 - TCP-48	TRAFFIC CONTROL PLANS (BALTIMORE CHERRY HILL STATION)
TCP-49 - TCP-56	TRAFFIC CONTROL PLANS (BALTIMORE CAMDEN YARDS STATION)

DC MAGLEV STATION (MOUNT VERNON SQUARE EAST)

NOTE: PP-XX DENOTES DRAWING NUMBER



VERTICAL SCALE:

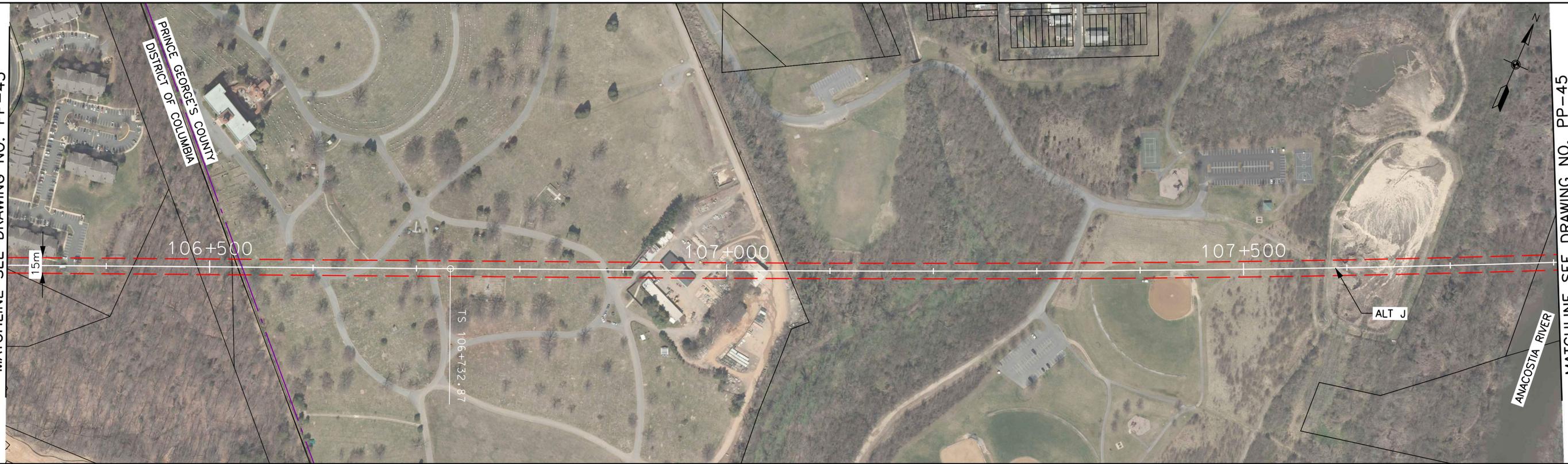
BALTIMORE-WASHINGTON SCMAGLEV
LOCATION MAP, INDEX AND LEGEND

DATE: 6/15/2020
DRAWING NO. 01
SHEET NO. -- OF --

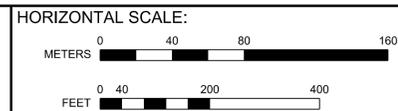
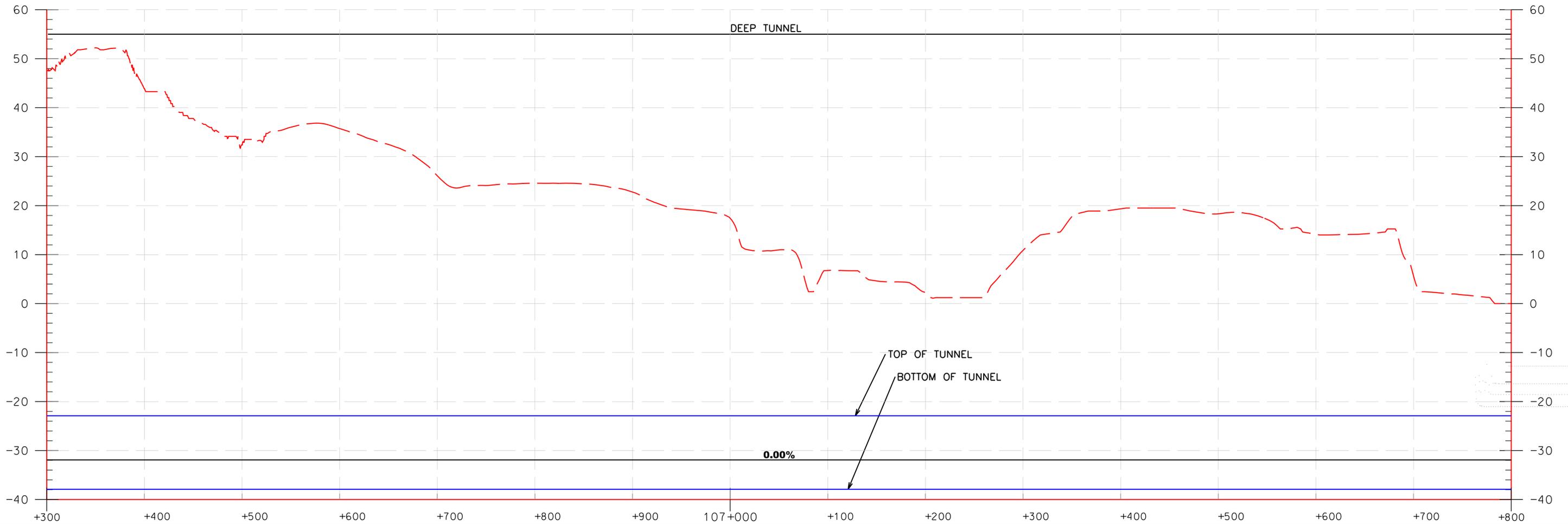
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MATCHLINE SEE DRAWING NO. PP-43



MATCHLINE SEE DRAWING NO. PP-45



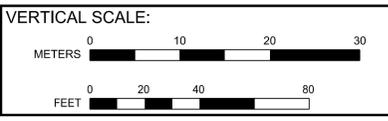
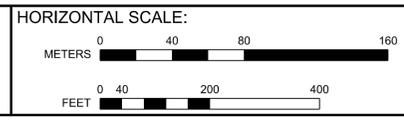
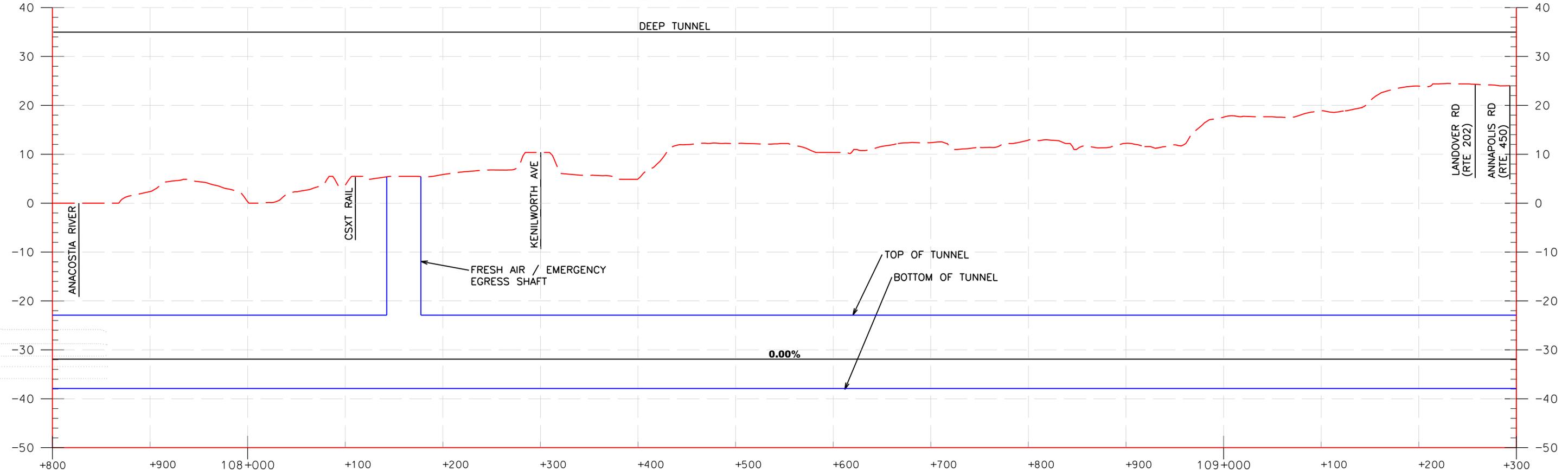
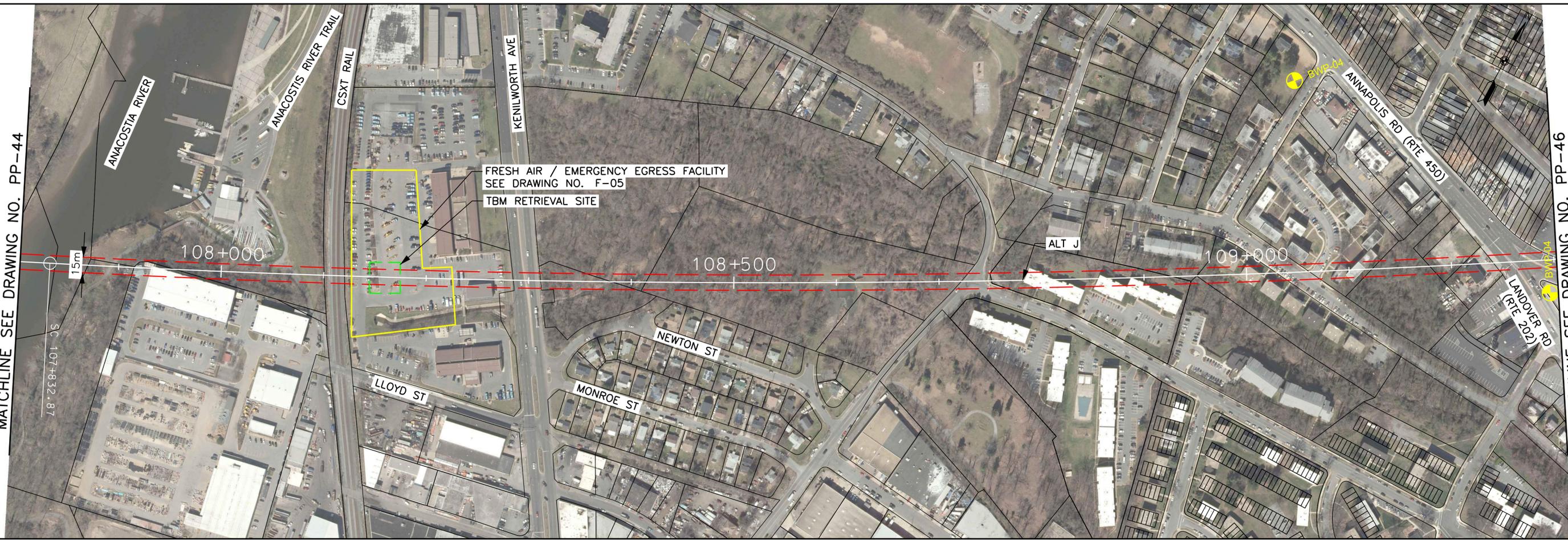
BALTIMORE-WASHINGTON SCMAGLEV
 J ALIGNMENT
 STA. 106+300 TO STA. 107+800

DATE: 6/10/2020
 DRAWING NO. PP-44
 SHEET NO. -- OF --

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MATCHLINE SEE DRAWING NO. PP-44

MATCHLINE SEE DRAWING NO. PP-46



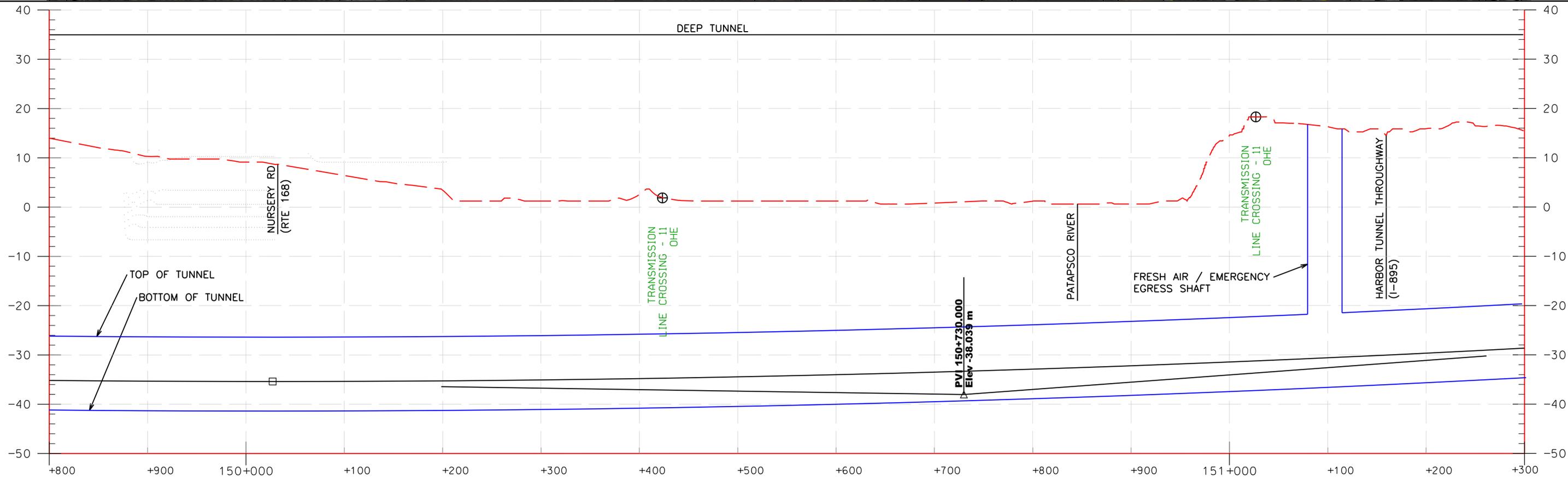
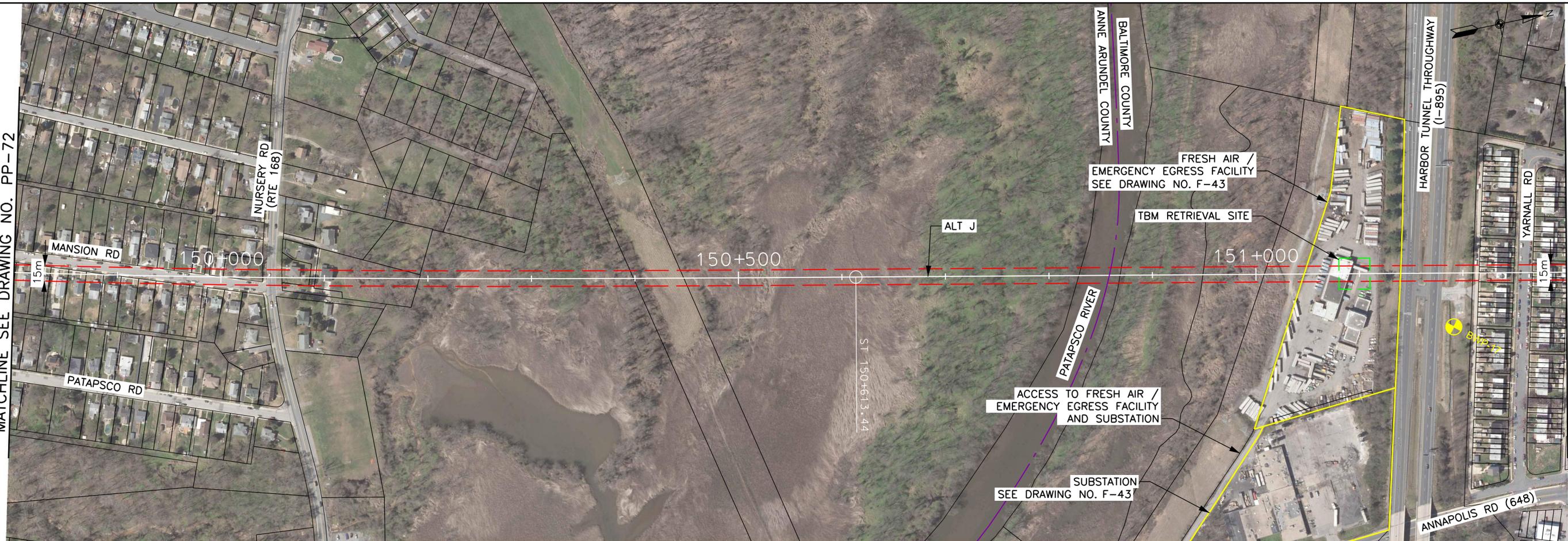
BALTIMORE-WASHINGTON SCMAGLEV
 J ALIGNMENT
 STA. 107+800 TO STA. 109+300

DATE: 6/10/2020
 DRAWING NO. PP-45
 SHEET NO. -- OF --

Printed By USMC882788 p:\high-eas2\pw_bentley.com\high-eas2-pw-10\Documents\Transportation\Eng\BUThe NORTHHEAST\MAGLEV\EST\Technical\Baltimore - DC\CADD\Cutehees\DEIS_Plan and Profile_J_DEIS.dgn 6/10/2020

MATCHLINE SEE DRAWING NO. PP-72

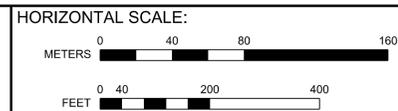
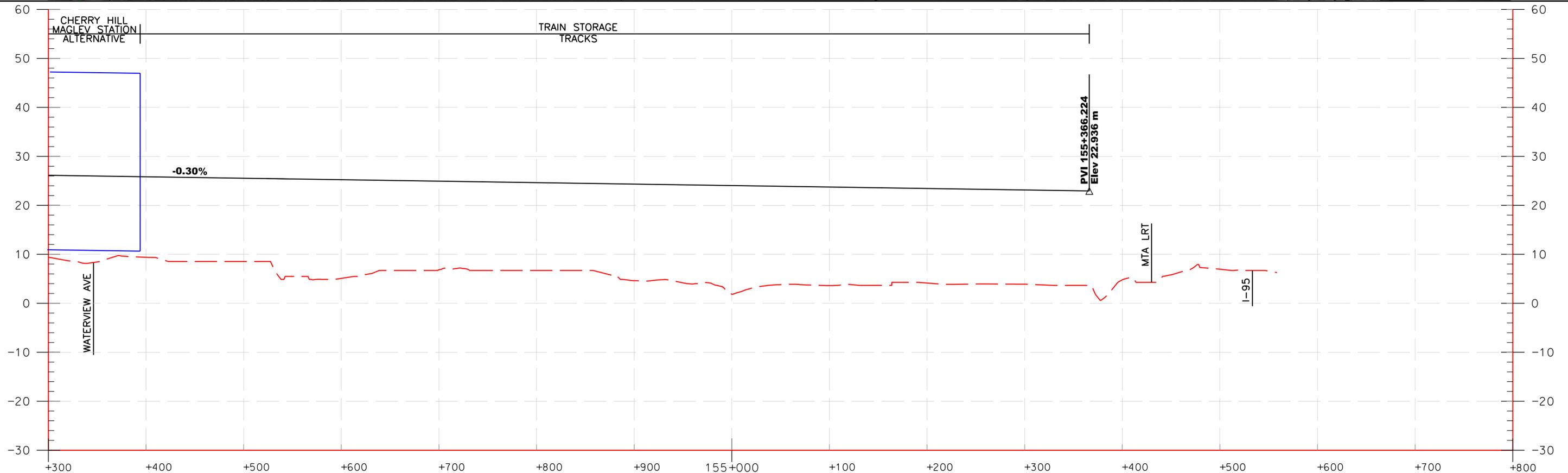
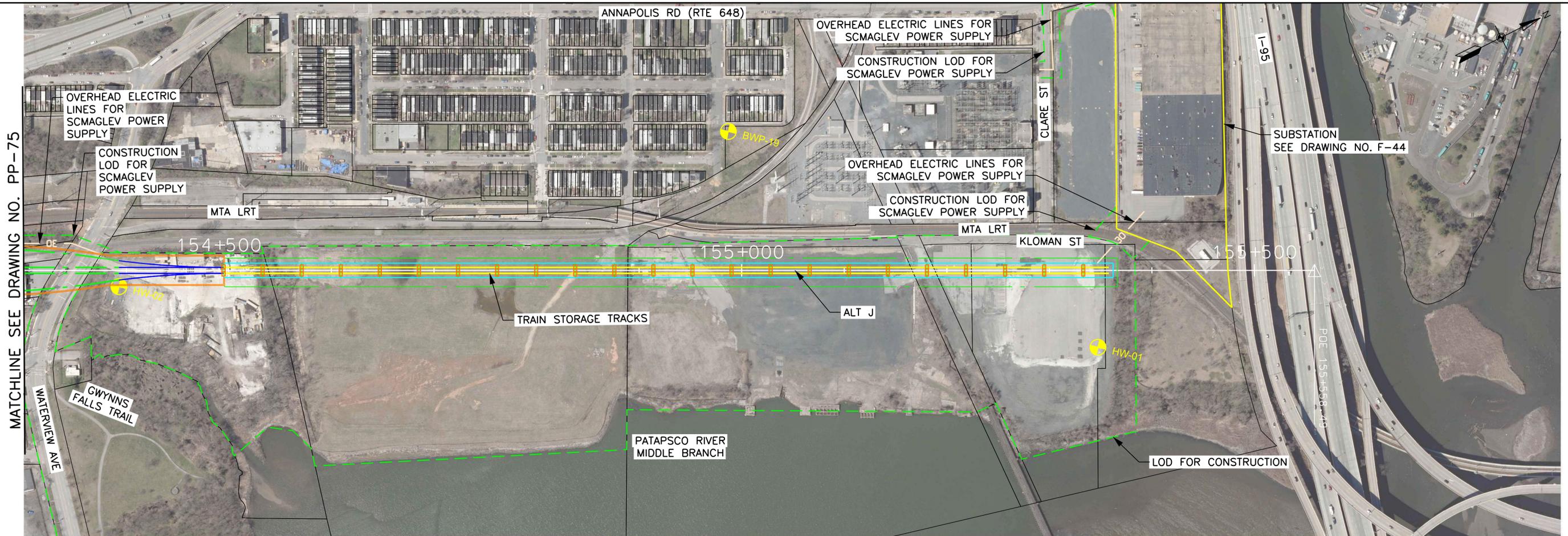
MATCHLINE SEE DRAWING NO. PP-74



BALTIMORE-WASHINGTON SCMAGLEV
 J ALIGNMENT
 STA. 149+800 TO STA. 151+300

DATE: 6/10/2020
 DRAWING NO. PP-73
 SHEET NO. -- OF --

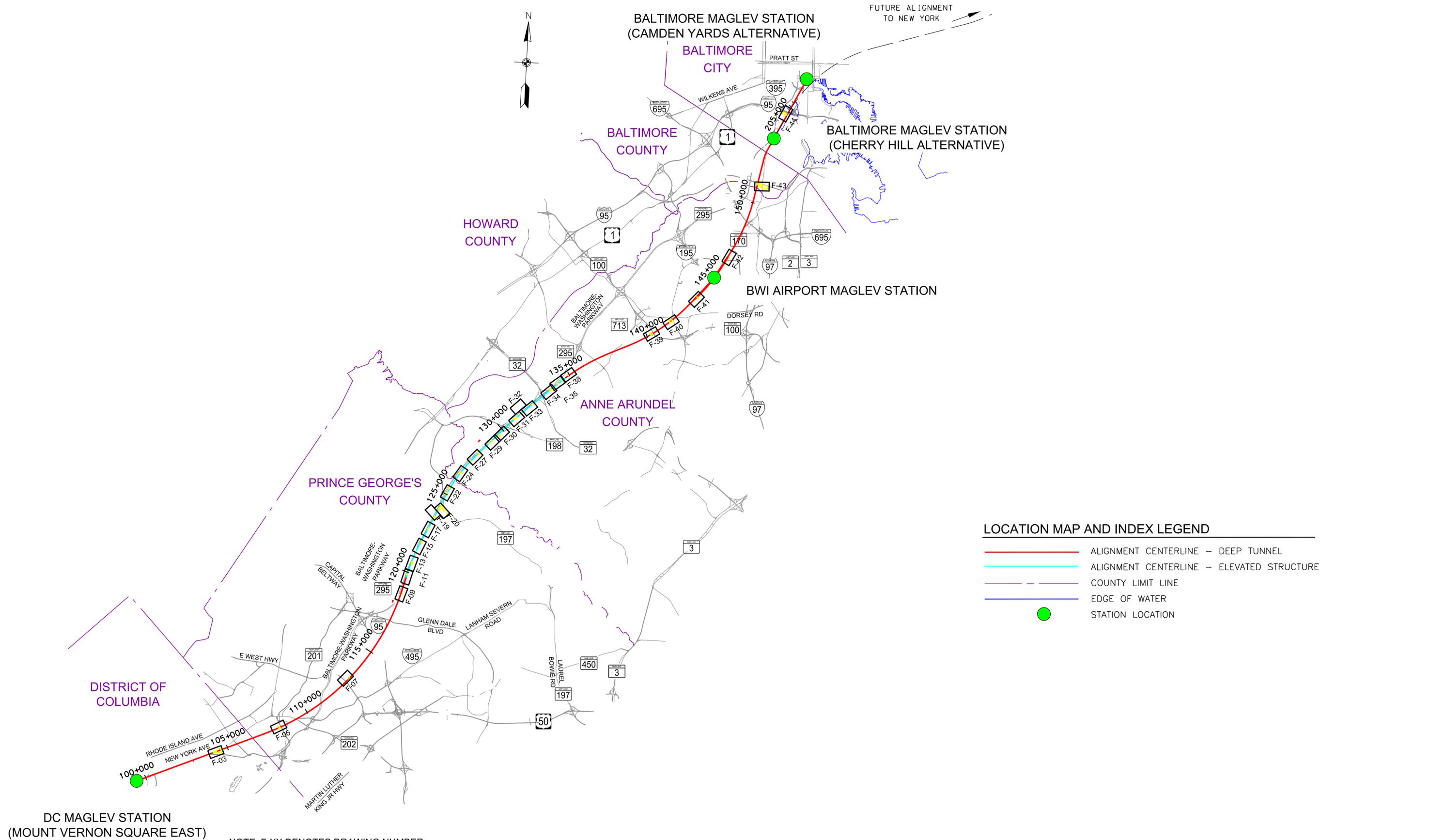
Printed By USM6882788 p:\high-eas2\pw_bentley.com\high-eas2\pw-10\Documents\Transportation\Eng\B\The NORTHHEAST MAGLEV\VEIS\Technical\Baltimore - DC\CADD\Cut sheets\DEIS - Plan and Profile - J_DEIS.dgn 6/10/2020



BALTIMORE-WASHINGTON SCMAGLEV
J ALIGNMENT
STA. 154+300 TO STA. 155+800

DATE: 6/10/2020
DRAWING NO. PP-76
SHEET NO. -- OF --

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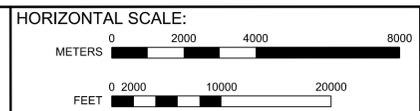


LOCATION MAP AND INDEX LEGEND

- ALIGNMENT CENTERLINE - DEEP TUNNEL
- ALIGNMENT CENTERLINE - ELEVATED STRUCTURE
- - - COUNTY LIMIT LINE
- EDGE OF WATER
- STATION LOCATION

DC MAGLEV STATION
(MOUNT VERNON SQUARE EAST)

NOTE: F-XX DENOTES DRAWING NUMBER



VERTICAL SCALE:

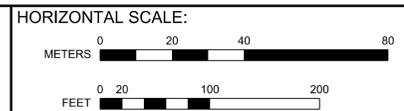
**BALTIMORE-WASHINGTON SCMAGLEV
J ALIGNMENT
FACILITIES KEY MAP**

DATE:	6/10/2020
DRAWING NO.	F-01
SHEET NO.	-- OF --

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NOTE: THE LAYOUT OF THE FRESH AIR / EMERGENCY EGRESS FACILITY SITE MAY BE UPDATED WITHIN THE LIMITS OF THE EXISTING PARKING LOT, BASED ON FURTHER DISCUSSIONS WITH WASHINGTON SUBURBAN SANITARY COMMISSION.

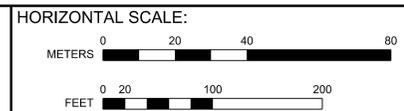


VERTICAL SCALE:
NONE

BALTIMORE-WASHINGTON SCMAGLEV
J ALIGNMENT
FRESH AIR / EMERGENCY EGRESS FACILITY STA. 108+150

DATE: 6/10/2020
DRAWING NO. F-05
SHEET NO. -- OF --

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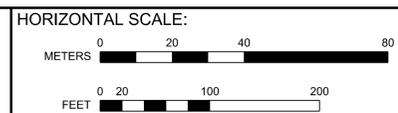
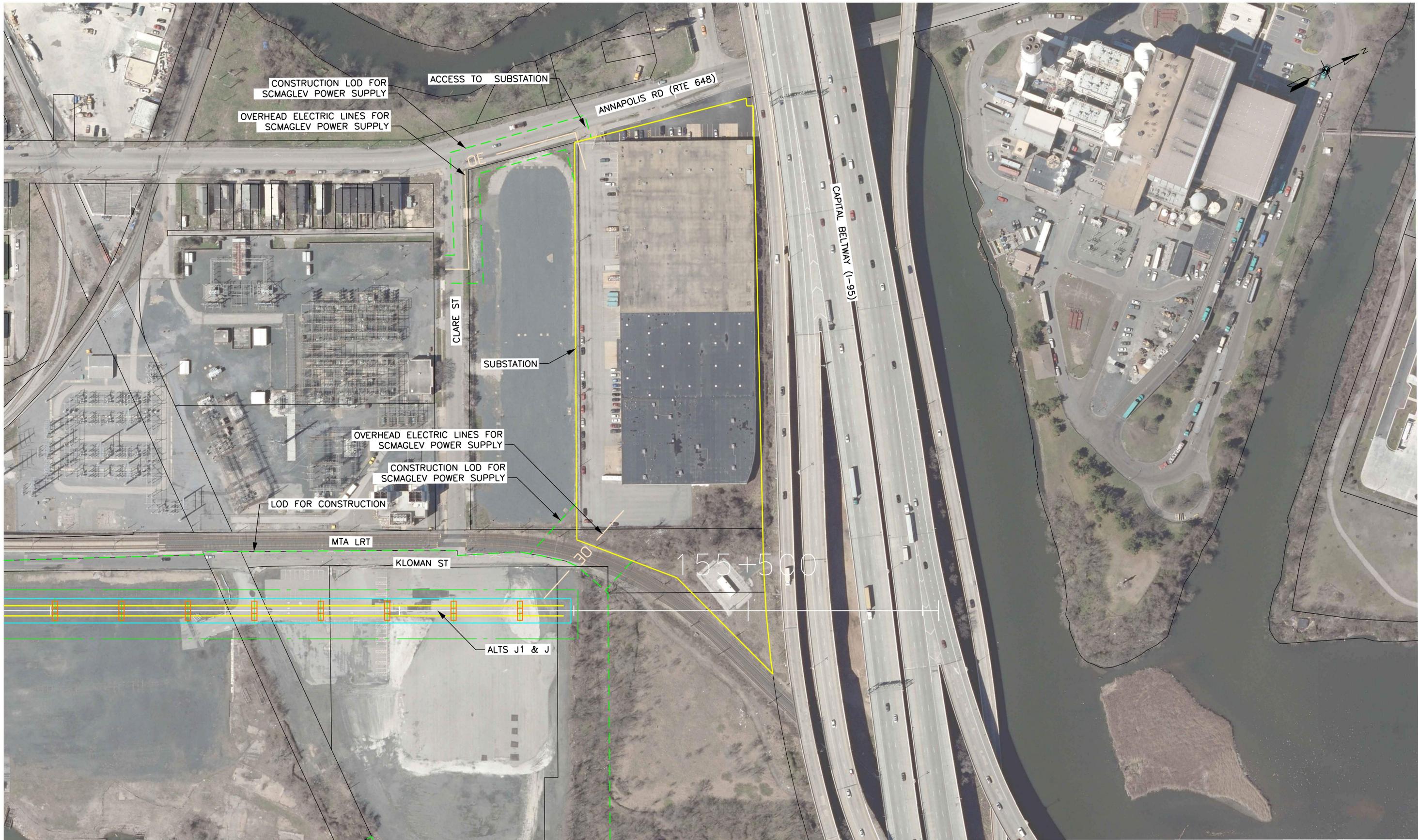


VERTICAL SCALE:
NONE

BALTIMORE-WASHINGTON SCMAGLEV
J1 AND J ALIGNMENTS
FA / EE FACILITY & SUBSTATION STA. 151+100

DATE:	6/10/2020
DRAWING NO.:	F-43
SHEET NO.:	-- OF --

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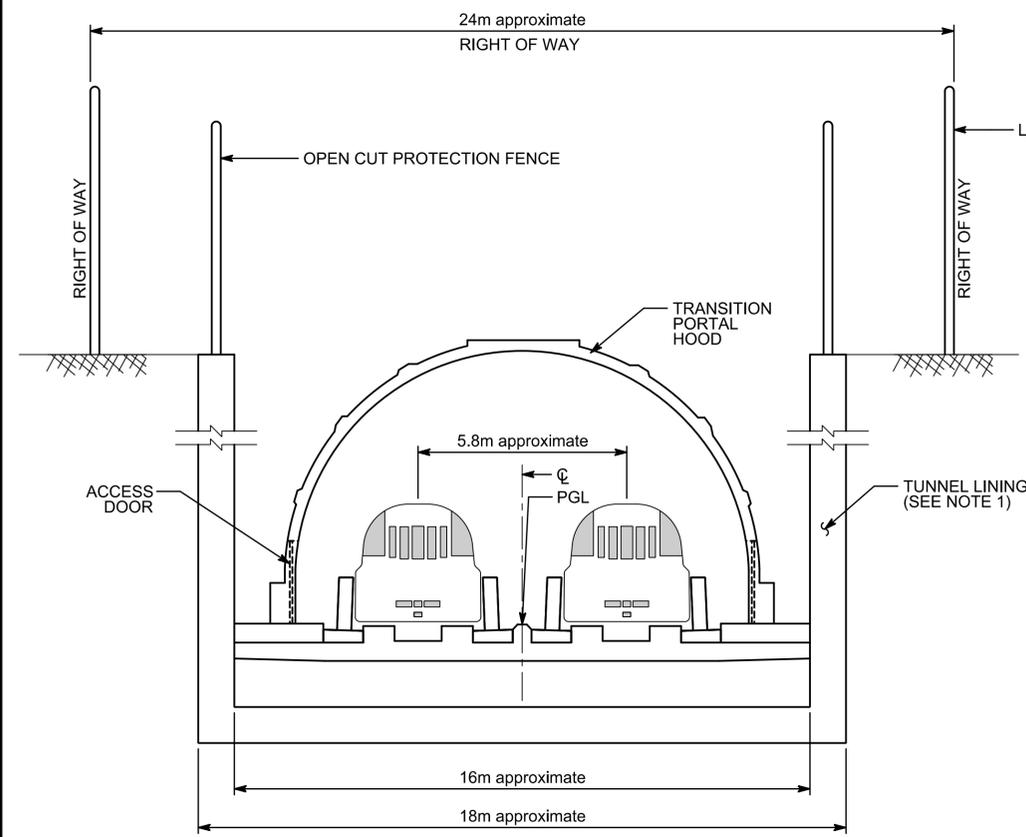


VERTICAL SCALE:
NONE

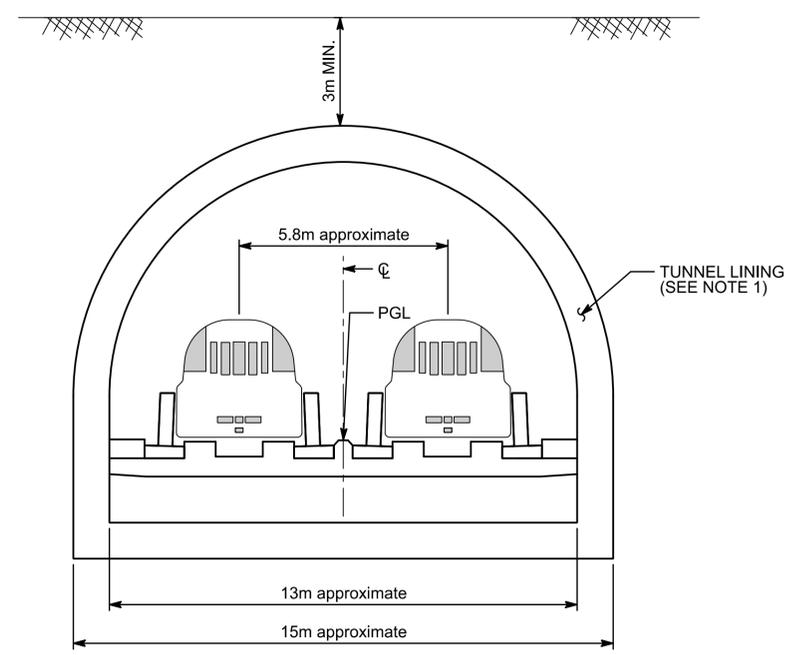
BALTIMORE-WASHINGTON SCMAGLEV
J1 AND J ALIGNMENTS
WESTPORT SUBSTATION

DATE:	6/10/2020
DRAWING NO.	F-44
SHEET NO.	-- OF --

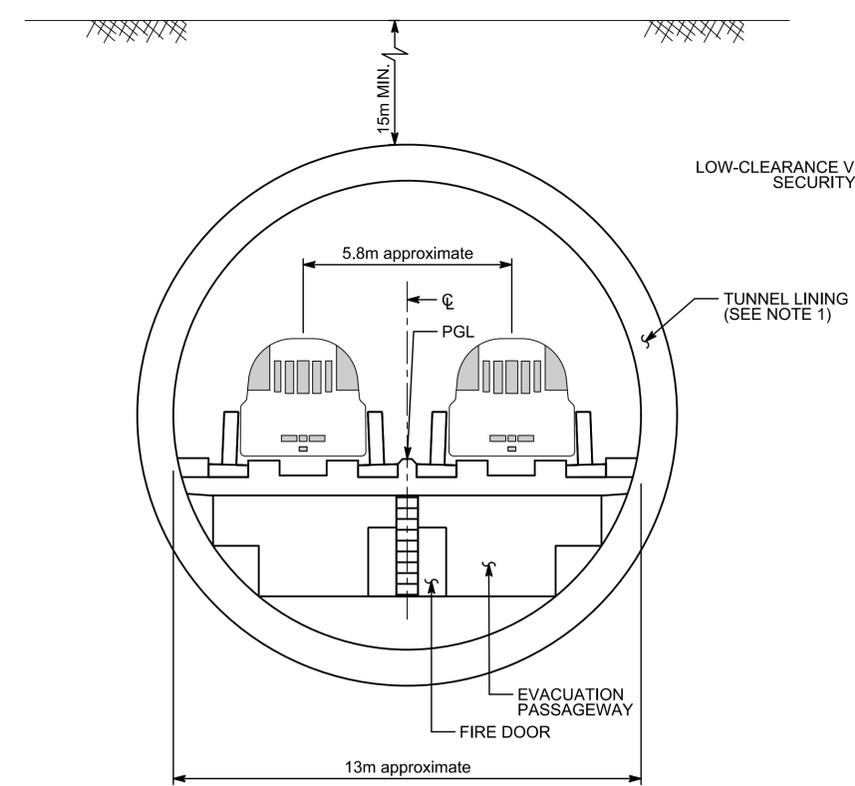
Revision 1
 p:\...Cutheists\Viaduct_Structures\9-31-2020...
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 10-09-2020



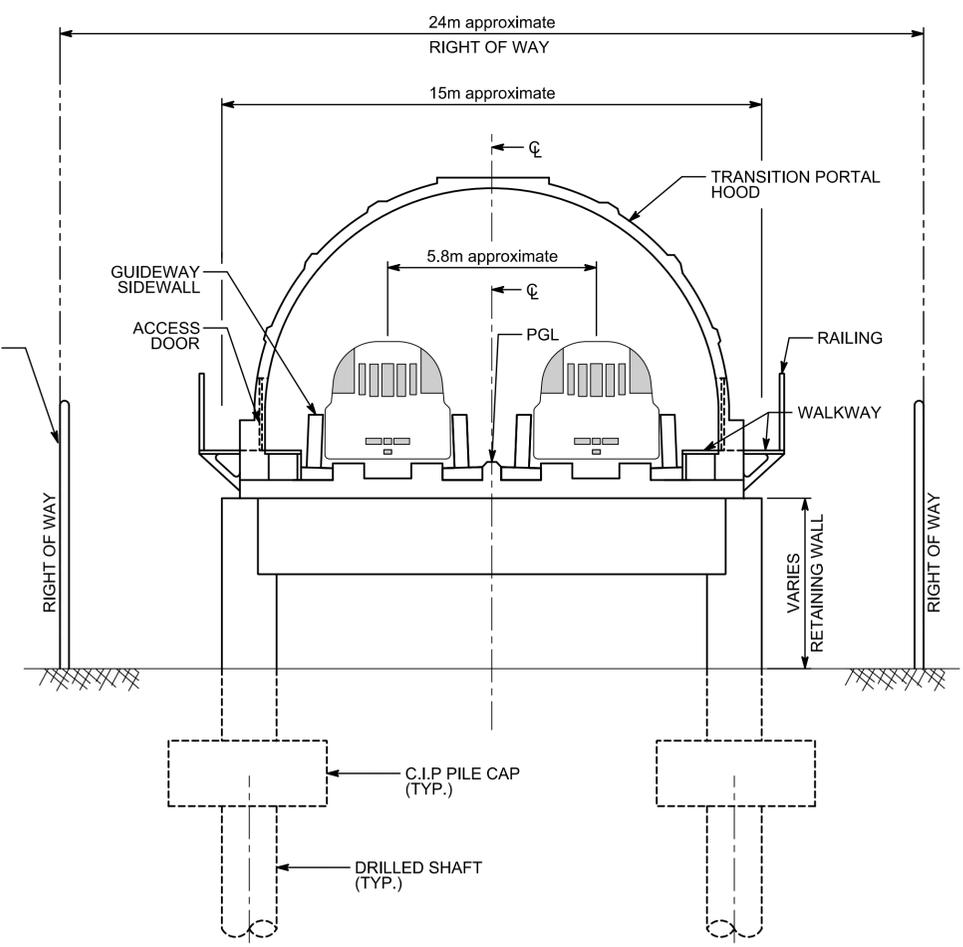
D OPEN CUT PORTAL SECTION
 TY-03 (SEE NOTE 2 AND 3)



B SECTION
 TY-03 (CUT-AND-COVER TUNNEL
 SEE NOTE 2)



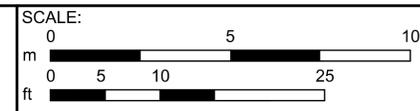
A SECTION
 TY-03 (DEEP TUNNEL)



C SECTION
 TY-03 (TUNNEL PORTAL BEFORE
 THE ABUTMENT)

NOTES:

1. TUNNEL LINING THICKNESS FOR DEEP TUNNEL, CUT-AND-COVER TUNNEL, AND OPEN CUT PORTAL IS APPROXIMATELY 1m, TO BE DETERMINED IN DETAILED DESIGN.
2. EMERGENCY EGRESS STAIRS TO THE SURFACE WILL BE PROVIDED FOR OPEN CUT SECTION AND CUT-AND-COVER SECTION AT APPROXIMATELY 762m SPACING AS REQUIRED PER NFPA-130.
3. BRACING COULD BE PROVIDED TO OPEN CUT SECTION FOR LIMITED LENGTH ON THE DEEPER SEGMENT, TO BE DETERMINED IN DETAILED DESIGN.



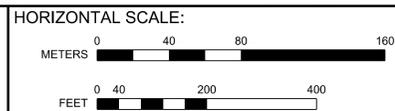
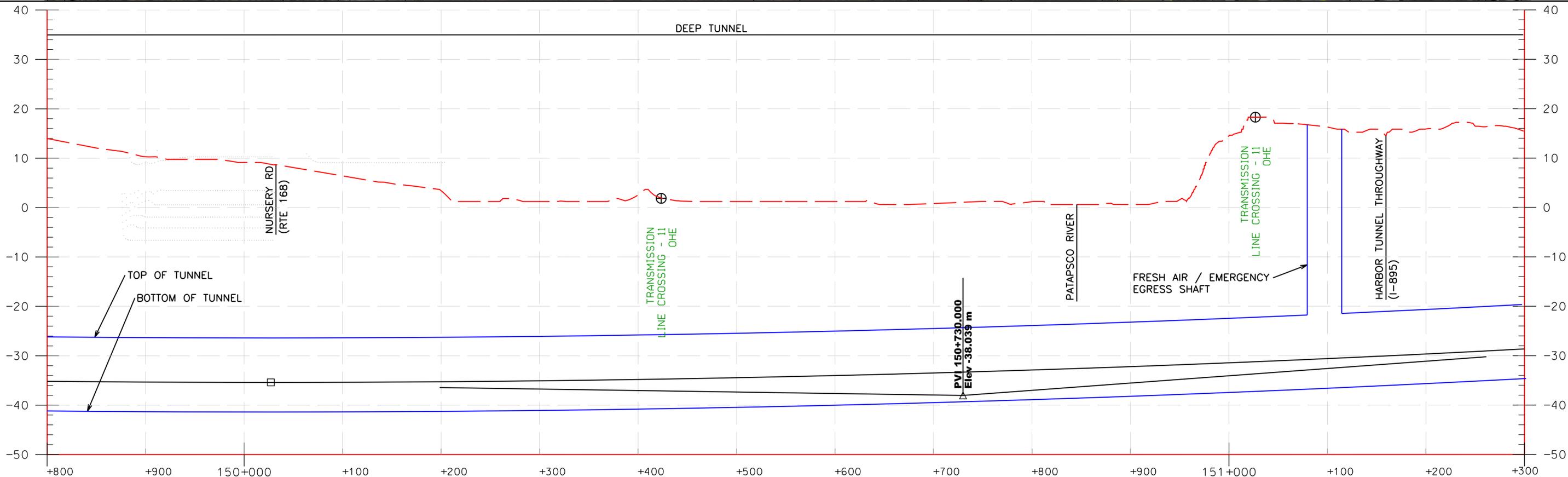
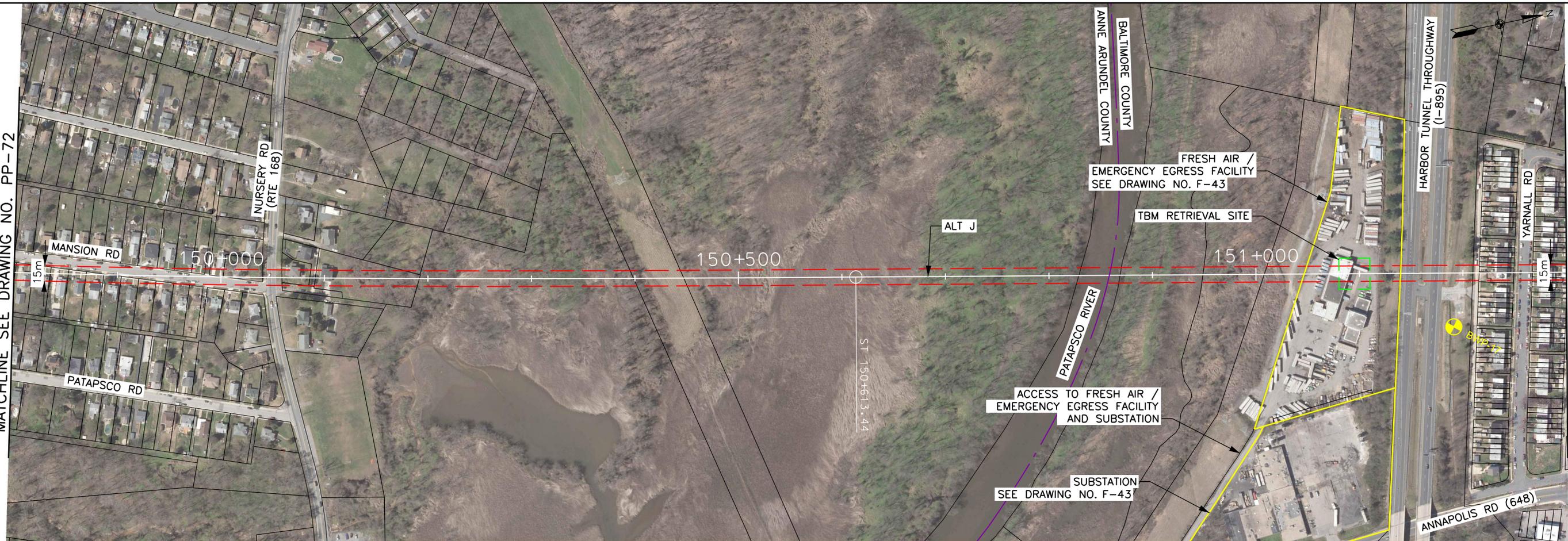
BALTIMORE-WASHINGTON SCMAGLEV
 DEEP TUNNEL, CUT AND COVER TUNNEL, AND OPEN CUT PORTAL
 AND TUNNEL PORTAL SECTIONS

DATE: 10/09/2020
 DRAWING NO. TY-06
 SHEET NO. -- OF --

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MATCHLINE SEE DRAWING NO. PP-72

MATCHLINE SEE DRAWING NO. PP-74



BALTIMORE-WASHINGTON SCMAGLEV
 J ALIGNMENT
 STA. 149+800 TO STA. 151+300

DATE: 6/10/2020
 DRAWING NO. PP-73
 SHEET NO. -- OF --